Listing

A Duly Authenticated Report from an Approved Agency

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Sika® Rmax® Pro Select R-Matte® Plus-3 Certification Body Report for the Seal and Insulate with ENERGY STAR® Program

Trade Secret Report Holder:

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

Section: 06 16 00 - Sheathing

Section: 06 16 13 - Insulated Sheathing

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION

Section: 07 21 00 - Thermal Insulation

Section: 07 21 13 - Foam Board Insulation

1 Innovative Product Evaluated[1]

1.1 Sika Rmax Pro Select R-Matte Plus-3

1.1.1 See **Appendix A** for additional details of the ENERGY STAR® requirements.

2 Product Description and Materials

2.1 The innovative product evaluated in this report is shown in **Figure 1** and is described in **Table 1**.



Figure 1. Sika Rmax Pro Select R-Matte Plus-3

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Table 1. Product Information

Product	Description	Materials	Thickness	Width	Length
Sika Rmax Pro Select R-Matte Plus-3	Non-Structural Foam Plastic Insulating Sheathing (FPIS) panels consisting of a closed-cell rigid polyisocyanurate (polyiso) foam core bonded to aluminum facers (ASTM C1289 Type I, Class 1 and Class 2)	Polyiso core bonded to reinforced aluminum facers on each side. One side is reflective, the other side is not	0.5" to 4.5" (12.7 to 114 mm)	48" (1,219 mm)	96", 108", 120", and 144" (2,438 mm, 2,743 mm, 3,048 mm, and 3,658 mm)
SI: 1" = 25.4 mm					

2.2 Custom lengths, widths, and thicknesses are available upon request.

2.3 As needed, review material properties for design in **Section 6**.

3 Definitions[2]

3.1 New Materials[3] are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.[4] The design strength and permissible stresses shall be established by tests[5] and/or engineering analysis.[6]

3.2 Duly authenticated reports[7] and research reports[8] are test reports and related engineering evaluations that are written by an approved agency[9] and/or an approved source.[10]

3.2.1 This report utilizes intellectual property and/or trade secrets to create public domain material properties for commercial end-use.

3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, 18.US.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).[11]

3.3 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.

3.4 An approved source is *"approved"* when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.[12]

3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.

3.5.1 The Center for Building Innovation (CBI) is ANAB[13] ISO/IEC 17025 and ISO/IEC 17020 accredited.

3.6 The regulatory authority shall enforce[14] the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing[15] stating the nonconformance and the path to its cure.

3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.[16]

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3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.[17] Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,[18] and can be used in any country that is an MLA signatory found at this link: https://iaf.nu/en/recognised-abs/

3.9 Approval equity is a fundamental commercial and legal principle.[19]

4 Applicable Standards for the Listing[20]

4.1 *Local, State, and Federal*

4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured local jurisdictions: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, St. Louis County, Texas Department of Insurance, and Wichita.[21]

4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.[22]

4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14[23] and Part 3280[24] pursuant to the use of ISO/IEC 17065 duly authenticated reports.

4.1.4 Approved means complying with the requirements of local, state, or federal legislation.

4.2 *Standards*

4.2.1 *Seal and Insulate with ENERGY STAR*

4.2.2 *ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*

4.2.3 *ASTM C1289: Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board*

4.2.4 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*

5 Listed[25]

5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (e.g., CBI), an approved agency (e.g., CBI and DrJ), and/or any approved source (e.g., DrJ), or other organization(s) concerned with product evaluation (e.g., DrJ), that maintains periodic inspection (e.g., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

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6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 *General*

6.1.1 Sika Rmax Pro Select R-Matte Plus-3 is used as wall sheathing and continuous insulation in buildings.

6.1.2 Sika Rmax Pro Select R-Matte Plus-3 is a non-structural FPIS panel used as thermal insulation within the building envelope including, but not limited to, attic, crawlspace, wall, roof, ceiling, floor, and foundation assemblies.

6.1.2.1 Use as a nail base for other building products shall be based on a separate engineered design (e.g., furred attachment).

6.1.3 Sika Rmax Pro Select R-Matte Plus-3 may be installed horizontally under floor slabs and vertically on the interior side of footings and exterior side of foundation walls.

6.2 *Thermal Resistance (R-Value)*

6.2.1 Sika Rmax Pro Select R-Matte Plus-3 has the thermal properties shown in **Table 2**.

Table 2. Thermal Properties

Nominal Thickness (in)	Thermal R-Value[1] (°F•ft²•hr/BTU)
0.5	3.2
1.0	6.0
1.5	9.6
2.0	13.1
2.5	16.7
3.0	20.3
3.5	23.9
4.0	27.4
4.5	31.0

SI: 1 in = 25.4 mm; 1 °F•ft²•h/BTU = 0.1761 K·m²/W

1. Thermal values are determined by using ASTM C518 test method at 75° F mean temperature.

6.3 *Fire Safety Performance*

6.3.1 *Surface Burning Characteristics:*

6.3.1.1 Sika Rmax Pro Select R-Matte Plus-3 has flame spread and smoke developed ratings as shown in **Table 3** when tested in accordance with ASTM E84.

Table 3. Surface Burning Characteristics[1]

Product[2]	Flame Spread Index	Smoke Developed Index	Classification
Sika Rmax Pro Select R-Matte Plus-3	≤ 75	≤ 450	Class B

SI: 1" = 25.4 mm

1. Tested in accordance with ASTM E84.
2. Foam core only.

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6.4 Alternative techniques shall be permitted in accordance with accepted engineering practice and experience. These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.

7 Certified Performance[26]

7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.[27]

7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.[28]

8 Installation

8.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.

8.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.

8.3 Fasteners include, but are not limited to, roofing nails, bugle head screws, cap nails, or self-tapping screws with washers. Fasteners should penetrate wood framing at least 1" and steel framing at least four (4) threads. All fasteners shall be corrosion resistant.

8.4 Other means of fastening may also be used, such as masonry fasteners or construction adhesives that are compatible with the insulation.

8.5 For further details, consult the manufacturer installation instructions.

8.6 For ENERGY STAR® installation instructions see **Appendix A**.

9 Substantiating Data

9.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:

9.1.1 Thermal resistance properties testing in accordance with ASTM C518

9.1.2 Flame spread and smoke developed rating tests in accordance with ASTM E84

9.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.

9.3 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.

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9.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.

9.5 *Testing and Engineering Analysis*

9.5.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.[29]

9.6 Where additional condition of use and/or regulatory compliance information is required, please search for Sika Rmax Pro Select R-Matte Plus-3 on the DrJ Certification website.

10 Findings

10.1 As outlined in **Section 6**, Sika Rmax Pro Select R-Matte Plus-3 has performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to its specified purpose.

10.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, Sika Rmax Pro Select R-Matte Plus-3 shall be approved for the following applications:

10.2.1 Use within the building envelope, including but not limited to, attic, crawlspace, wall, roof, ceiling, floor, and foundation assemblies.

10.2.1.1 For use below grade, products may be installed horizontally under floor slabs and vertically on the exterior side of foundation walls or interior side of footings.

10.2.2 Flame spread and smoke developed indices in accordance with the Seal and Insulate with ENERGY STAR program.

10.2.3 Thermal resistance in accordance with the Seal and Insulate with ENERGY STAR program.

10.3 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Rmax.

10.4 IBC Section 104.2.3[30] (IRC Section R104.2.2[31] and IFC Section 104.2.3[32] are similar) in pertinent part state:

> **104.2.3 Alternative Materials, Design and Methods of Construction and Equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative is not specifically prohibited by this code and has been approved.

10.5 **Approved:**[33] Building regulations require that the building official shall accept duly authenticated reports.[34]

10.5.1 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited.

10.5.2 An approved source is *"approved"* when an RDP is properly licensed to transact engineering commerce.

10.5.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.

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10.6 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.

10.7 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.[35]

11 Conditions of Use

11.1 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the applied load shall remain within the allowable capacities of the defined properties using the principles of accepted engineering practice.

11.2 As listed herein, Sika Rmax Pro Select R-Matte Plus-3 subject to the following conditions:

11.2.1 Installation shall comply with this report and the manufacturer installation instructions. In the event of a conflict between this report and the manufacturer installation instructions, the more restrictive shall govern.

11.2.2 Sika Rmax Pro Select R-Matte Plus-3 must be protected from the interior of the building by a thermal barrier.

11.2.3 In areas where the probability of termite infestation is *"very heavy,"* Sika Rmax Pro Select R-Matte Plus-3 shall not be installed on the exterior face of foundation walls, under interior or exterior foundation walls, or under slab foundations located below grade. The clearance between the products installed above grade and exposed earth shall be at least 6".

11.2.3.1 *Exceptions:*

11.2.3.1.1 Buildings where the structural members of the walls, floors, ceilings, and roofs are entirely of noncombustible materials or are pressure preservative treated wood.

11.2.3.1.2 An approved method of protecting Sika Rmax Pro Select R-Matte Plus-3 and the structure from subterranean termite damage is used.

11.2.3.1.3 On the interior side of basement walls.

11.2.4 Sika Rmax Pro Select R-Matte Plus-3 is not to be used as a structural nailing base for claddings alone.

11.2.4.1 Use as a nail base for other building products shall be based on a separate engineered design (e.g., furred attachment)

11.2.5 Where applicable, resistance to horizontal loads from concrete or masonry walls shall be provided by a different means and shall be designed by an RDP.

11.3 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:

11.3.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.

11.3.2 This report and the installation instructions shall be submitted at the time of permit application.

11.3.3 This innovative product has an internal quality control program and a third-party quality assurance program.

11.3.4 At a minimum, this innovative product shall be installed per **Section 8**.

11.3.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.

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11.3.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.

11.3.7 The application of this innovative product in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.

11.4 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *"the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3"*, all of IBC Section 104, and IBC Section 105.3.

11.5 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).

11.6 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

12 Identification

12.1 Sika Rmax Pro Select R-Matte Plus-3, as listed in **Section 1.1**, is identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.

12.2 Additional technical information can be found at usa.sika.com/retail/en/products-catalog/insulation/foam-board-insulation/r-matte-plus-3.html.

13 Review Schedule

13.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.

13.2 For information on the status of this report, please contact DrJ Certification.

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Appendix A
Seal and Insulate with ENERGY STAR® Program Report

1 Purpose

1.1 The purpose of this appendix is to show, Sika Rmax Pro Select R-Matte Plus-3 recognized in Report Number 2312-01, has also been evaluated for compliance with the program listed below:

1.1.1 Seal and Insulate with ENERGY STAR®

1.2 This appendix also shows that DrJ has reviewed all relevant test results and has compared them to the criteria provided in the codes and standards listed below and the EPA Definitions and Testing Requirements for Residential Insulation V1.0.

1.3 For the purpose of the ENERGY STAR® program, this product is defined as *"Board Insulation"*.

2 Description

2.1 General installation instructions, warnings, limitations, and warranty information related to Sika Rmax Pro Select R-Matte Plus-3 insulation boards are provided below. Construction diagrams within this report provide additional details based on various applications. Consult usa.sika.com/retail/en/products-catalog/insulation/foam-board-insulation/r-matte-plus-3.html for more information and complete literature including, but not limited to, data sheets, SDS, Sales Policy, etc.

3 Applicable Standards

3.1 *Seal and Insulate with ENGERY STAR®*

3.2 *ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*

3.3 *ASTM C1289: Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board*

3.4 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*

4 ENERGY STAR® Definitions

4.1 ***Insulation:*** Any material mainly used to slow down heat flow. It may be mineral or organic, fibrous, cellular, or reflective (aluminum foil). It may be in rigid, semi-rigid, flexible, or loose-fill form.

4.2 ***Facing:*** A thin covering adhered to the surface of insulation prior to field installation. Facings may include, but are not limited to, kraft paper, metal foil, and polymer.

4.3 ***Residential Buildings:*** Single-family homes (attached or unattached), multifamily buildings with four (4) units or fewer, or multifamily buildings (e.g., condominiums and apartments) with three (3) stories or less in height above grade.

4.4 ***Board Insulation:*** Semi-rigid or rigid insulation preformed into rectangular units having a degree of suppleness particularly related to their geometrical dimensions. Typical materials include, but are not limited to, fiberglass, expanded polystyrene (EPS), extruded polystyrene (XPS), polyisocyanurate, and polyurethane. The product may or may not be faced.

4.5 ***Radiant Barrier:*** A reflective material such as a foil that will reduce radiant heat transfer across open air spaces by use of one or more surfaces of high reflectance and low emittance. The reflective material shall have an emissivity of 0.1 or less, and may or may not be factory-applied to a rigid or insulating material.

4.6 ***Insulation with Reflective Facing:*** An assembly consisting of a core insulating material as defined in the Insulation Products Definitions section of this document, and has a reflective facing such as a foil attached to at least one side.

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4.7 ***Structural Insulated Panels (SIP):*** A structural sandwich panel which consists of a foam plastic insulation core bonded directly between two structural facings made of wood structural panels.

4.8 ***R-Value:*** The inverse of the time rate of heat flow through a body from one of its bounding surfaces to the other surface for a unit temperature difference between the two surfaces, under steady state conditions, per unit area. For the purposes of this program, Imperial units will only be accepted (e.g., (h•ft^2•°F)/BTU).

4.9 ***Smoke-Development Index:*** The characteristic of a material to emit smoke when exposed to flame or fire compared to red oak and inorganic cement.

4.10 ***Flame-Spread Index:*** The characteristic of a material to resist the spreading of flames when exposed to flame or fire compared to red oak and inorganic cement.

5 Evaluation

5.1 *R-Value*

5.1.1 Sika Rmax Pro Select R-Matte Plus-3 has minimum thermal resistances (R-Values) as shown in **Table 2** of Report Number 2312-01.

5.2 *Flame Spread and Smoke Developed Index*

5.2.1 Sika Rmax Pro Select R-Matte Plus-3 has the flame spread and smoke developed indexes as shown in **Table 3** of Report Number 2312-01.

5.2.2 DrJ has verified that the test results provided have been generated by a laboratory accredited to perform these tests as required by the Conditions and Criteria for Recognition of Insulation Certification Bodies for the ENERGY STAR® program.

5.2.3 DrJ has verified that the products provided for testing were sampled by the testing agency in accordance with their accredited sampling procedures.

6 General Installation Instructions

6.1 Special training and/or certification is not required. This product is designed for an easy install for both DIY and professional contractors.

6.2 Before beginning installation, all surfaces shall be clean and free of irregularities that will affect the placement or performance of the insulation including, but not limited to, dirt, debris, miscellaneous fasteners, or warped, defective, or otherwise damaged framing.

6.3 Installations utilizing Sika Rmax Pro Select R-Matte Plus-3 must be separated from the interior side of the building by a suitable thermal barrier or ignition barrier when required. Refer to the Local Building Official for general exceptions and specific governing codes and requirements. Consult Rmax for special testing and exceptions on thicknesses of 1" or less.

6.4 All materials installed over Sika Rmax Pro Select R-Matte Plus-3 (e.g., thermal barrier, ignition barrier, furring strips, interior finishes, veneers, roof systems, etc.), must be mechanically attached through the insulation to the framing/structure according to the building code.

7 Walls and Ceilings

7.1 Attach insulation boards to framing or other finished surface. Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.

7.1.1 Where insulation is cut to accommodate penetrations, voids and gapping should be minimized.

7.1.2 When using compatible adhesives to secure boards, apply the adhesive to the finished surface. Press/hold the board firmly until adhesive is set. Refer to adhesive manufacturer for application recommendations and proper installation techniques.

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7.1.3 When using mechanical fasteners to secure boards, use fasteners with sufficient length to penetrate framing or other finished surface (minimum 1" into wood or minimum $^{29}/_{64}$" into steel). Use a minimum of eight (8) fasteners, spaced evenly throughout the board.

7.1.4 Where multiple rows or layers of insulation exist, stagger joints.

7.2 Refer to individual application details on pages 13 – 26 for more specific instructions.

7.2.1 ***For Exterior Applications see Details:*** Stud Wall Constructions Siding 01, Stud Wall Construction (Brick Veneer) 02, Masonry Wall Construction (Veneer) 03, and Re-Siding Construction 04.

7.2.2 ***For Interior Applications see Details:*** Masonry Wall Construction 05, Stud Wall & Vaulted Ceilings Construction 06, Attic Knee Wall & Ceiling Construction 07, Below Grade Wall Construction 10, and Ceiling Crawl Space Construction 11.

8 Floors and Below Grade

8.1 Attach insulation boards to finished surface.

8.1.1 Install Sika Rmax Pro Select R-Matte Plus-3 over specially prepared base of crushed stone for slab on grade constructions or on existing slab for floor and radiant floor slab constructions.

8.1.2 Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.

8.1.3 Where insulation is cut to accommodate penetrations, voids and gapping should be minimized.

8.2 Refer to individual application details for more specific instructions. See Details on pages 24 - 26: Slab on Grade Construction 12, Floor Construction 13, and Radiant Floors Slab Construction 14.

9 Roofs

9.1 Attach insulation boards to suitable roof deck (tongue-and-groove timber, plywood, or metal deck).

9.1.1 Secure boards to roof deck with enough fasteners to hold it in place until the nailing surface or roof cover system is attached through the insulation to the deck.

9.1.2 Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.

9.1.3 Where multiple rows or layers of insulation exist, stagger joints.

9.1.4 Where insulation is cut to accommodate penetrations, voids and gapping should be minimized.

9.1.5 When using compatible adhesives to secure boards, apply the adhesive per the manufacturer recommendations.

9.1.6 When using mechanical fasteners to secure boards, use screw and plate type fasteners with sufficient length to penetrate the deck (minimum 1" into wood or minimum $^{3}/_{4}$" into steel).

9.2 Refer to individual application details for more specific instructions. See Details on pages 20 - 21: Standing Seam Metal Roof 08 and Shingle Roof Construction 09.

10 Limitations

10.1 Sika Rmax Pro Select R-Matte Plus-3 should not be used as commercial roof insulation directly under membrane systems.

10.2 Sika Rmax Pro Select R-Matte Plus-3 is not a structural panel and must not be used as a nailing base for any other building products. The structure must be properly braced for lateral loads and uplift according to the requirements of the local building codes.

10.2.1 Use as a nail base for other building products shall be based on a separate engineered design (e.g., furred attachment).

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10.3 Except where permitted by code in *"very heavy"* termite infestation probability areas, boards shall not be installed on the exterior face or under interior or exterior foundation walls or slab foundations located below grade, and the clearance between insulation boards installed above grade and exposed earth shall be at least 6" (152 mm). Consult the Local Building Official for specific governing codes and requirements.

11 Warnings

11.1 Polyisocyanurate foam is an organic material, which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading. Boards must not be in direct contact with hot objects requiring a certain amount of clearance. Refer to equipment/fixture rating for guidance.

12 Safety

12.1 Cutting Sika Rmax Pro Select R-Matte Plus-3 produces a nuisance or irritant dust – use of a dust mask may be necessary.

12.2 Safety glasses are always recommended when using power tools.

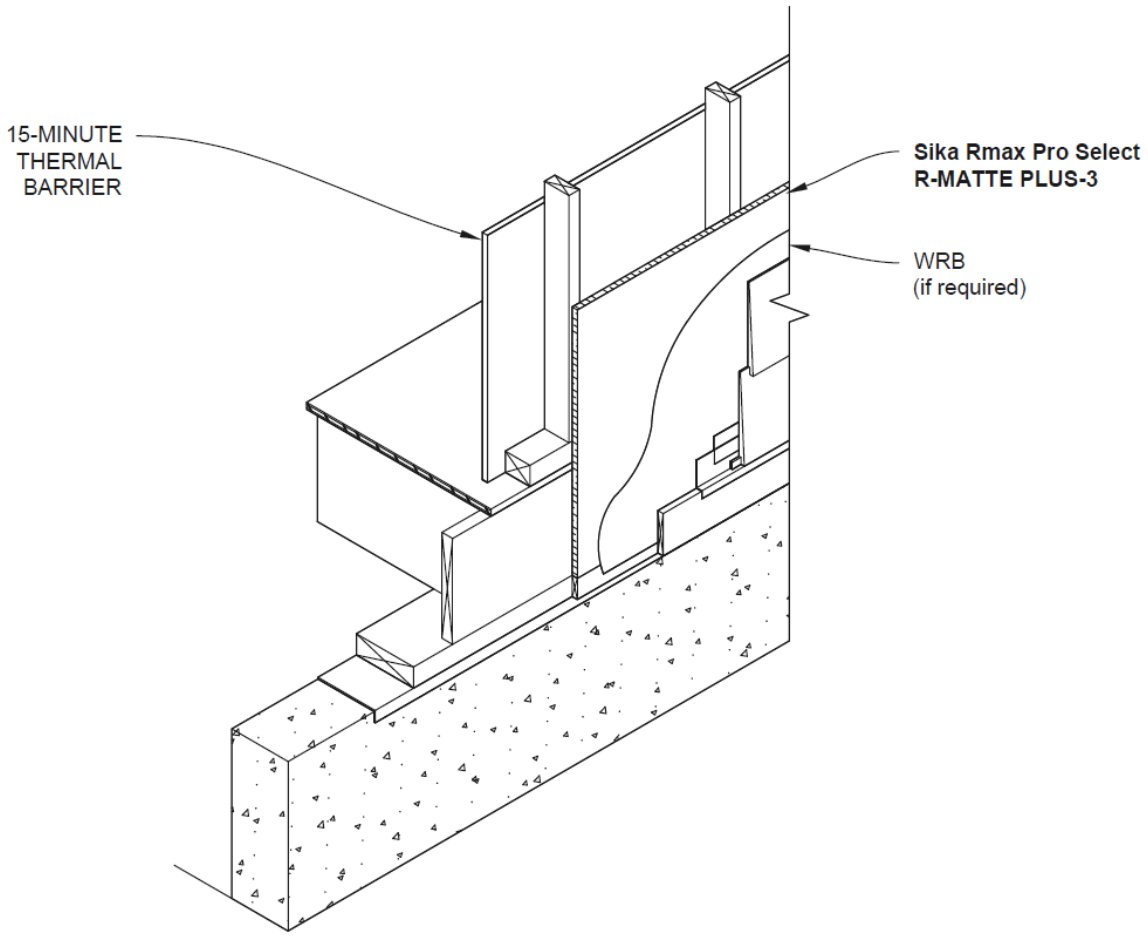
12.3 Proper ventilation should be provided to minimize airborne dust and fumes if using construction adhesives.

13 Warranty

13.1 See Rmax *"Sales Policy"* for warranty conditions, Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax.

> ***Note:*** All Rmax products must be tarped, placed on skids, and kept dry before and throughout construction until proper sealing techniques are employed.

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Notes:

1. Veneer shown is lap siding. Other veneers, such as stucco and various siding materials - aluminum, vinyl, fiber cement, wood and wood-based products - are also acceptable. For stucco systems, the secondary barrier is required over the R-Matte Plus-3 prior to attaching the metal lathe.
2. R-Matte Plus-3 insulation panels shall be secured to the studs using bugle-head screws, galvanized roofing nails, or minimum $^{3}/_{4}$" cap nails. A quality grade construction adhesive may also be used to secure the R-Matte Plus-3. The veneer must be mechanically attached through the R-Matte Plus-3 to the studs.

Stud Wall Construction (Siding)	01
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

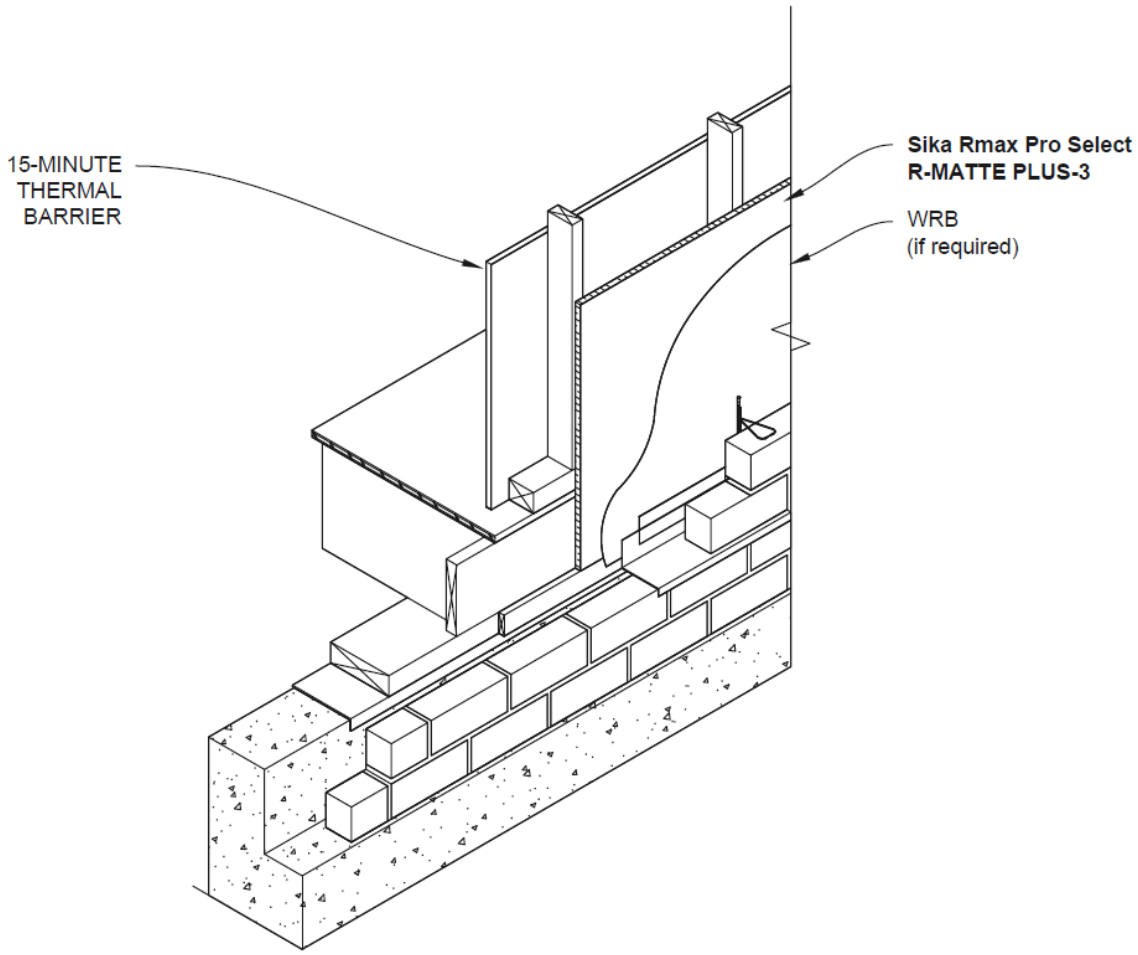
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13524 Welch Rd
Dallas, TX 75244
(972) 387-4500
Retail.usa.sika.com/en/products/insulation

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(800) 527-0890 (Central)
(800) 762-9462 (Western)
Email: Rmax@rmax.com

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Notes:

1. Veneer shown is brick. Other veneers - artificial stone and natural stone - are also acceptable.
2. R-Matte Plus-3 panels shall be secured to the studs using bugle-head screws, galvanized roofing nails, or minimum $^{3}/_{4}$" cap nails, or simply cut to fit tightly between existing wall ties. Proper air space must be maintained between the face of the insulation and the veneer.

Stud Wall Construction (Brick Veneer)	02
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

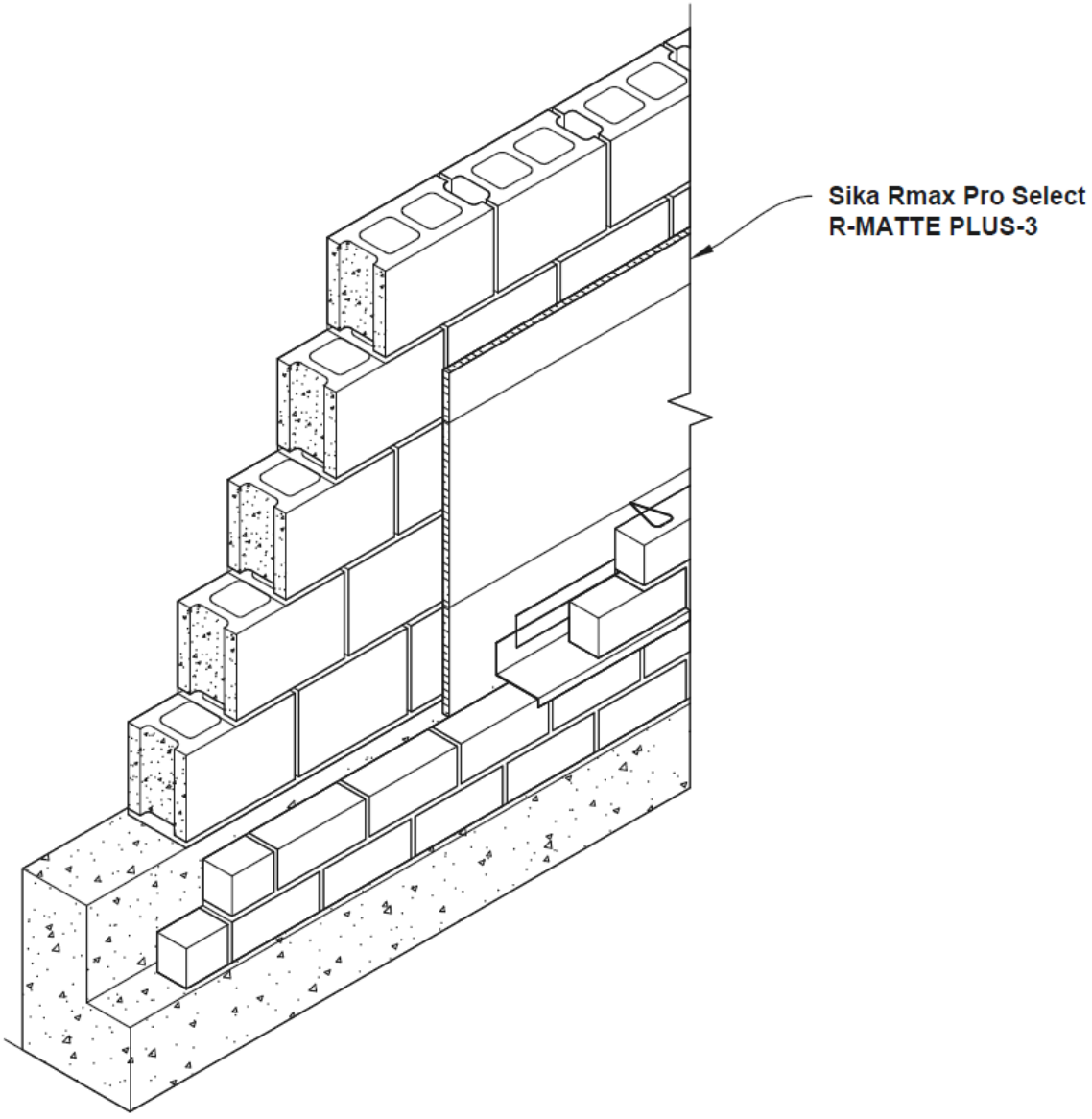
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Notes:

1. Veneer shown is brick. Other veneers - artificial stone and natural stone - are also acceptable.
2. Masonry/block wall shall be adequately waterproofed according to local requirements and building design.
3. R-Matte Plus-3 panels shall be secured to the dry face of concrete or CMU walls with a quality grade construction adhesive or simply cut to fit tightly between existing wall ties. Proper air space must be maintained between the face of the insulation and the veneer.

Masonry Wall Construction (Veneer)	03
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

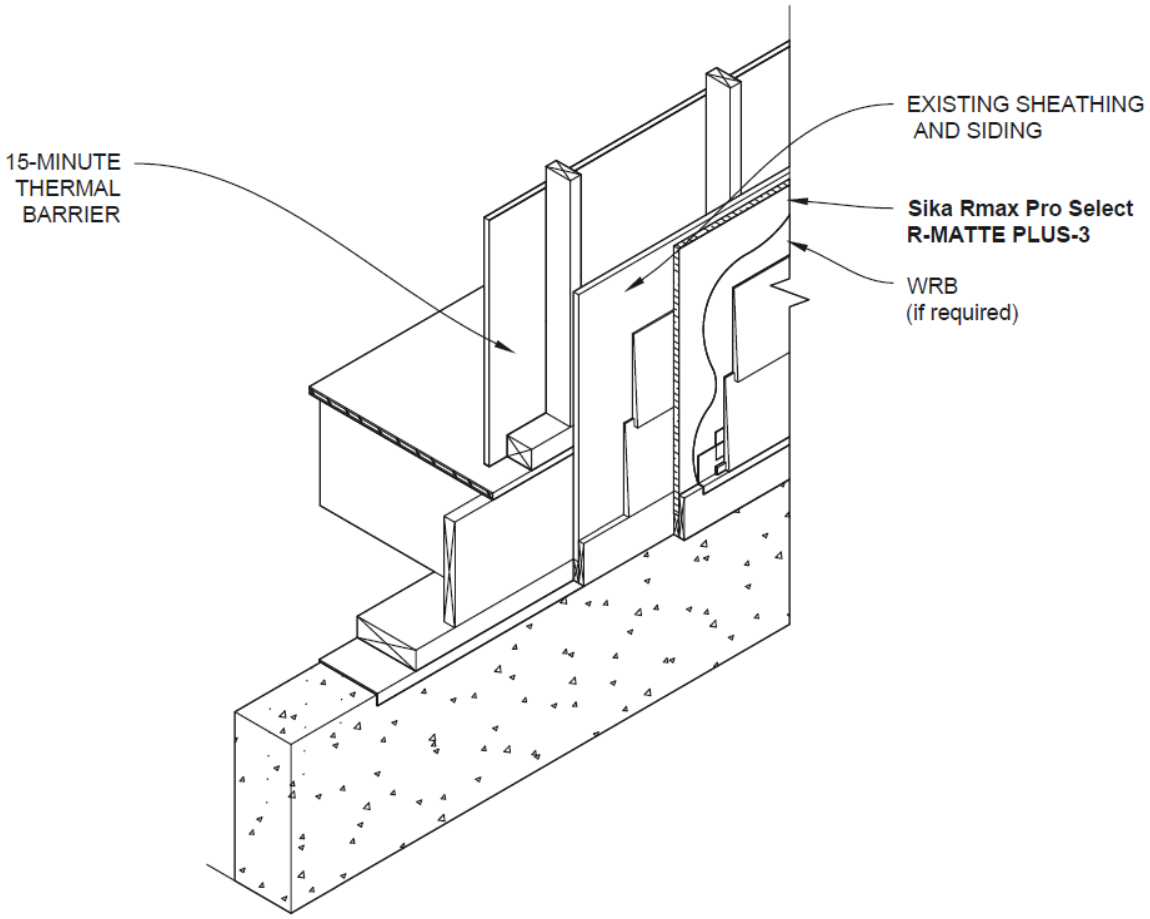
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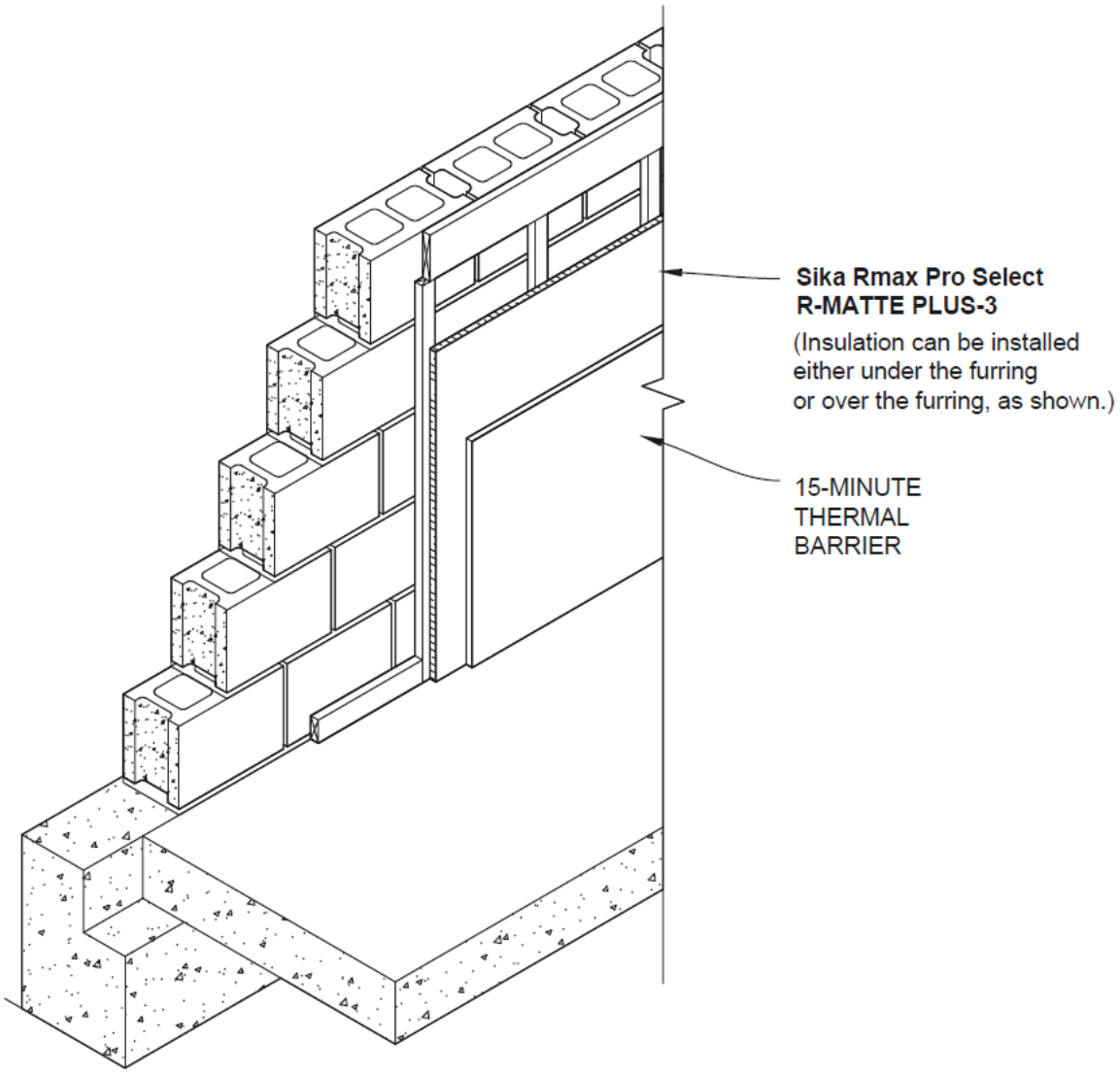
Notes:

1. Veneer shown is lap siding. Other veneers - stucco and various siding materials, such as aluminum, vinyl, fiber cement, wood and wood-based products - are also acceptable. For stucco systems, the secondary barrier is required over the R-Matte Plus-3 prior to attaching the metal lathe.
2. R-Matte Plus-3 insulation panels shall be secured with galvanized nails of sufficient length to penetrate the old sidings, sheathings below and at least one inch into the existing wall studs. Prior to installation, ensure that the existing siding is sound and solidly attached.

Re-Siding Construction	04
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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			Date: 02/02/2024	Scale: NTS	Sheet: A1.00

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Notes:

1. R-Matte Plus-e insulation panels shall be secured to the furring using bugle-head screws, galvanized roofing nails, or minimum 3/4" cap nails. When R-Matte Plus-3 is installed under the furring, adhere panels directly to the masonry/brick wall.
2. Masonry/block wall shall be adequately waterproofed according to local requirements and building design.

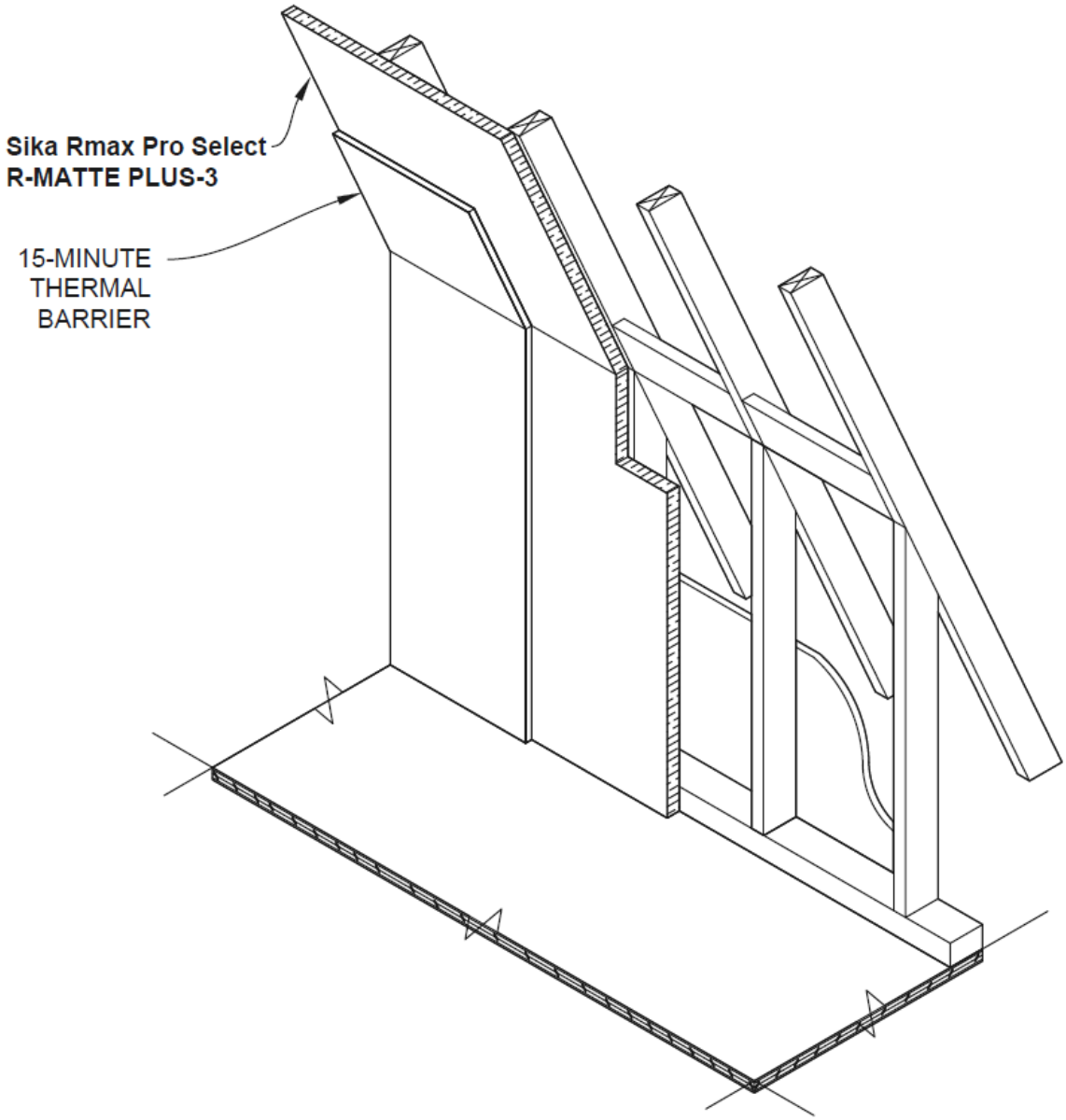
Masonry Wall Construction	05
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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Notes:

1. Refer to local building codes for requirements on proper ventilation.
2. R-Matte Plus-3 insulation panels shall be secured to the rafters/ studs using bugle-head screws, galvanized roofing nails, or minimum $^{3}/_{4}$" cap nails. A quality grade construction adhesive may also be used to secure the R-Matte Plus-3.

Stud Wall & Vaulted Ceiling Construction	06
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

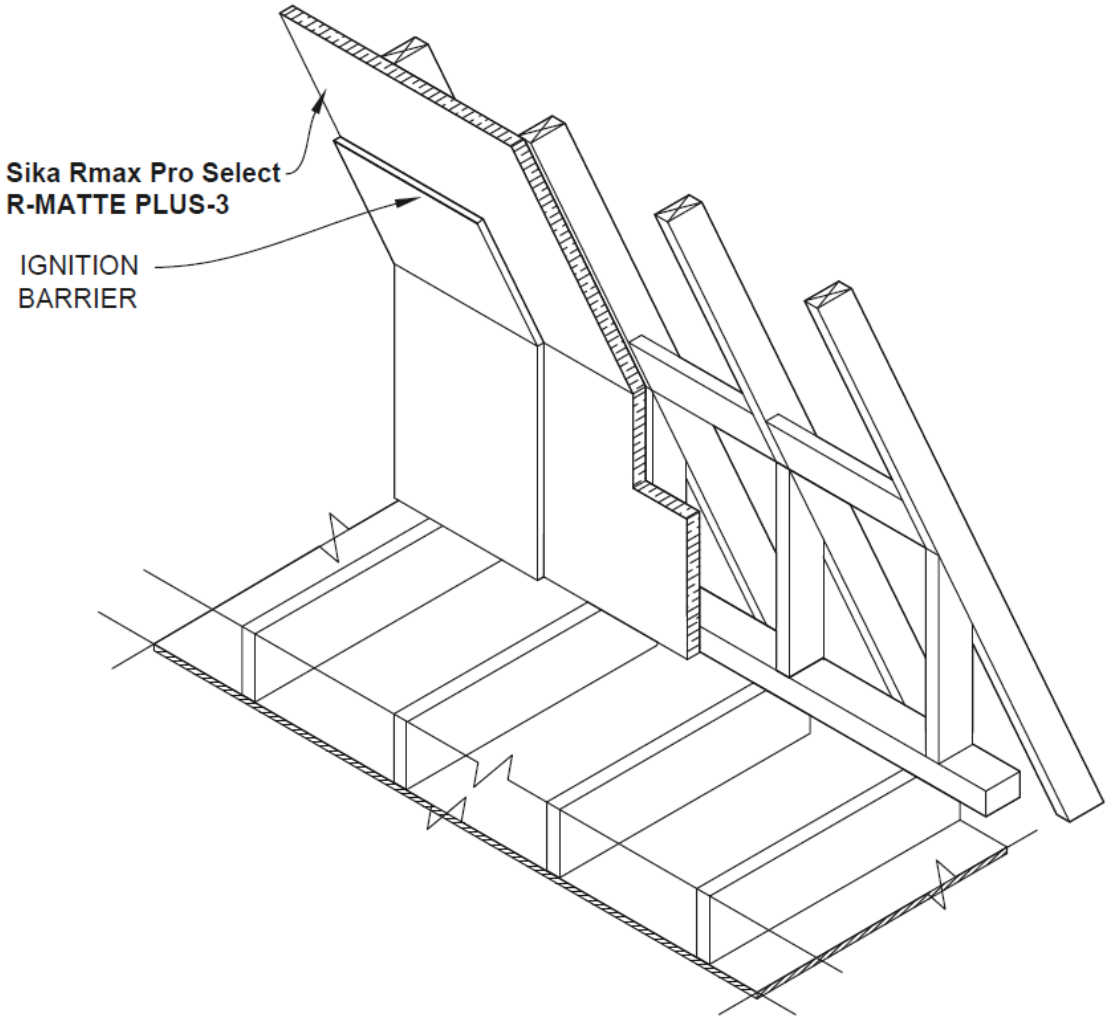
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Notes:

1. Refer to local building codes for requirements on proper ventilation.
2. R-Matte Plus-3 insulation panels shall be secured to the studs/rafters using bugle-head screws, galvanized roofing nails, or common nails driven through cap washers. A quality grade construction adhesive may also be used to secure the R-Matte Plus-3.

.

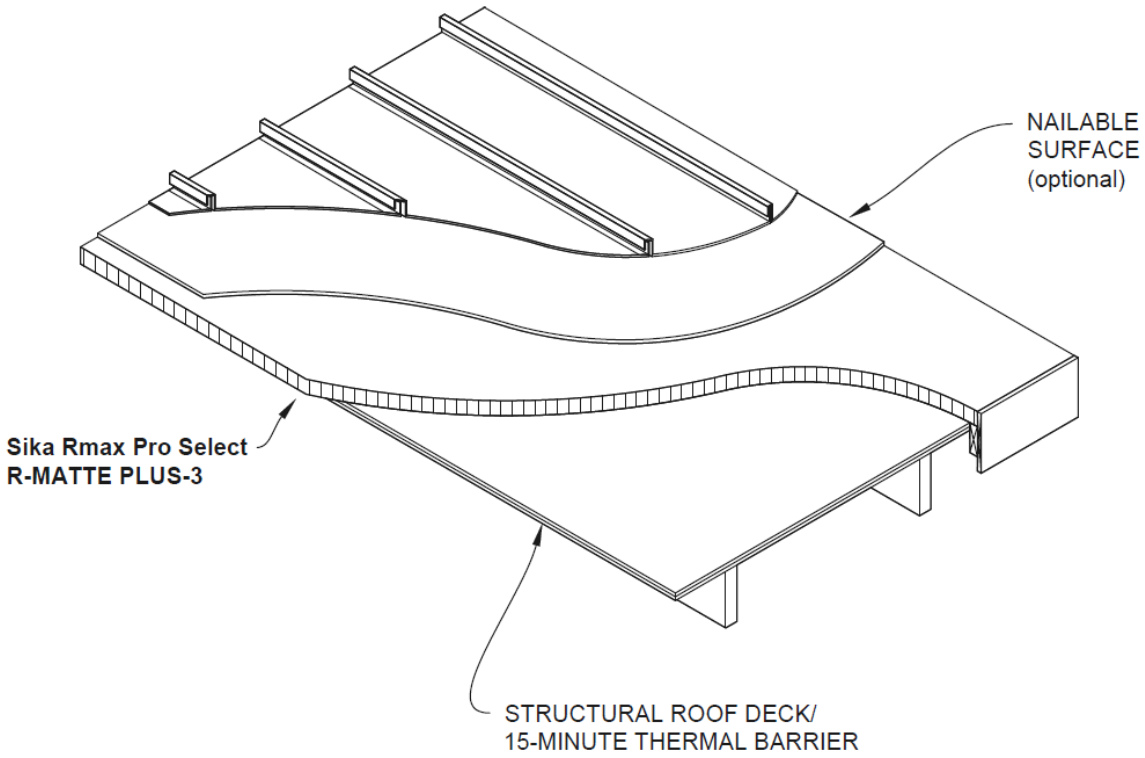
Attic Knee Wall & Ceiling Construction	07
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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Standing Seam Metal Roof Construction | 08

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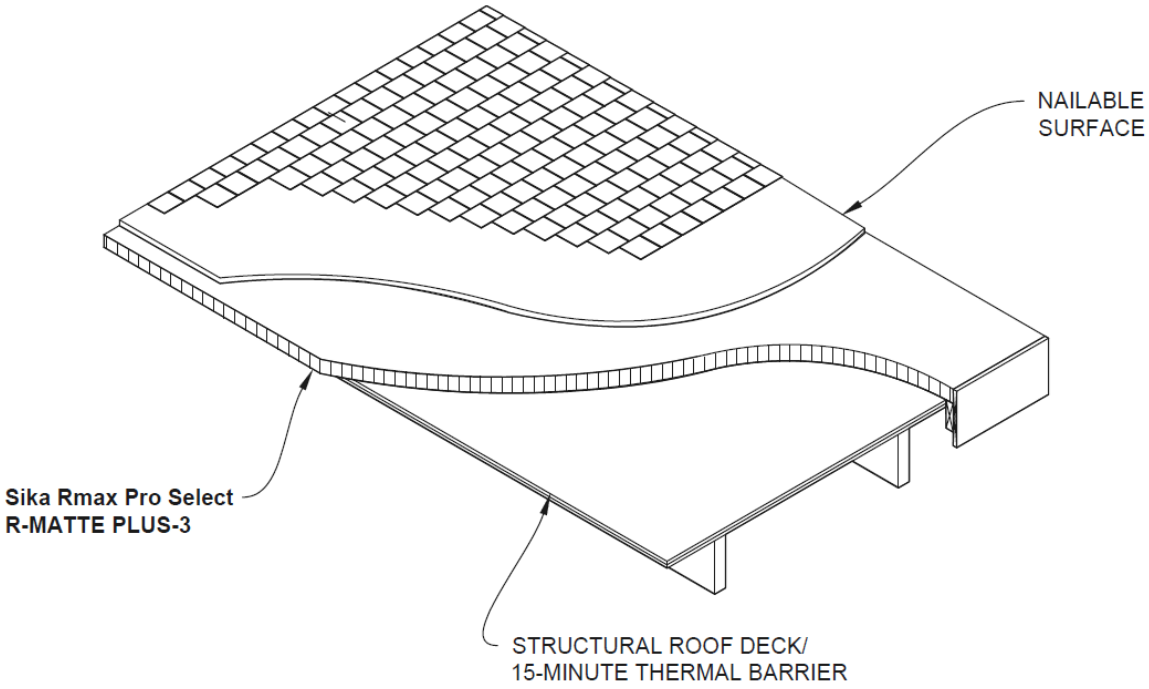
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Notes:

1. Roof cover shown is asphalt shingles. Other covers - wood shingles and concrete or clay tiles - are also acceptable. Consult roof cover manufacturer for above deck roof ventilation requirements.

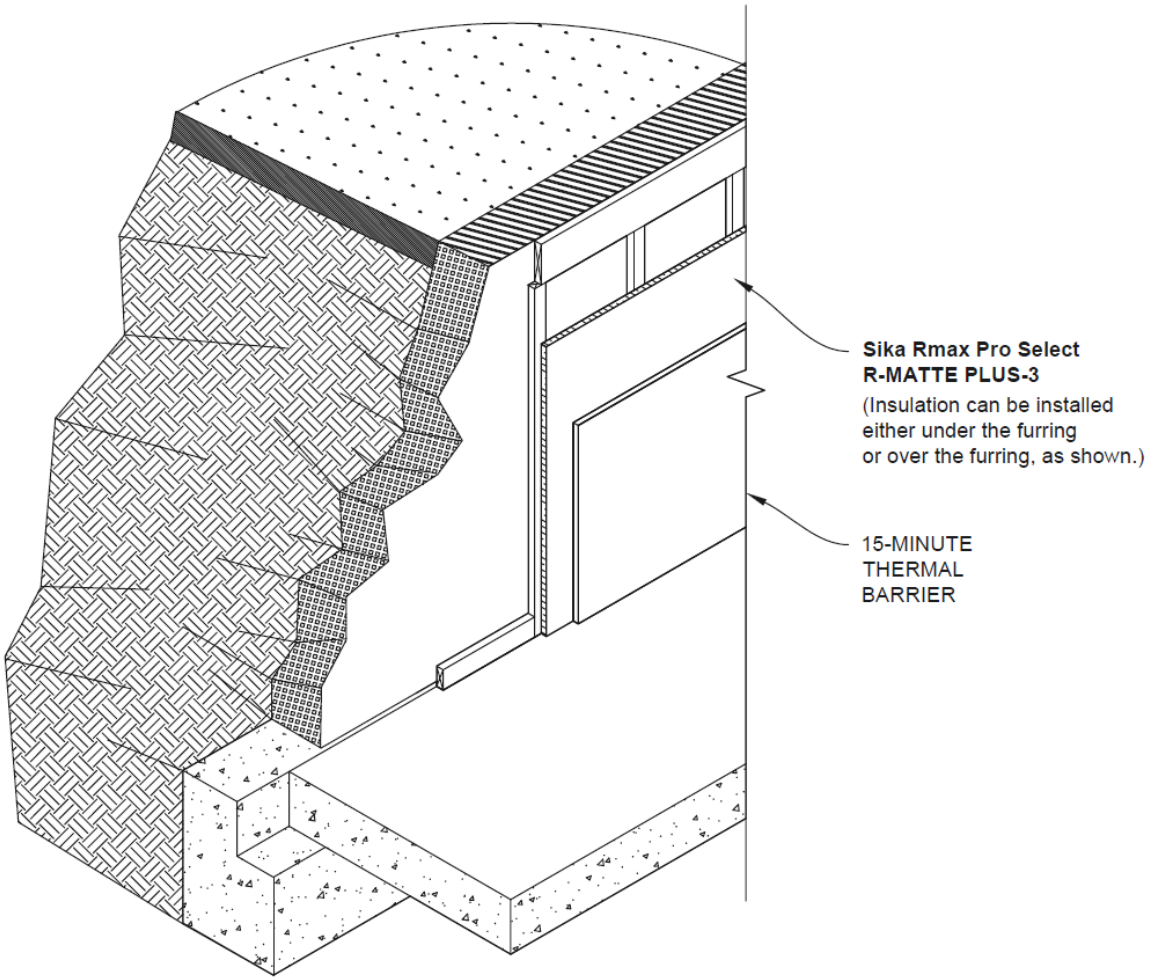
Shingle Roof Construction	09
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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Notes:

1. R-MattePlus-3 insulation panels shall be secured to the furring using bugle-head screws, galvanized roofing nails, or minimum 3/4" cap nails. A quality grade construction adhesive may also be used to secure the R-Matte Plus-3.
2. Masonry/block wall shall be adequately waterproofed according to local requirements and building design.

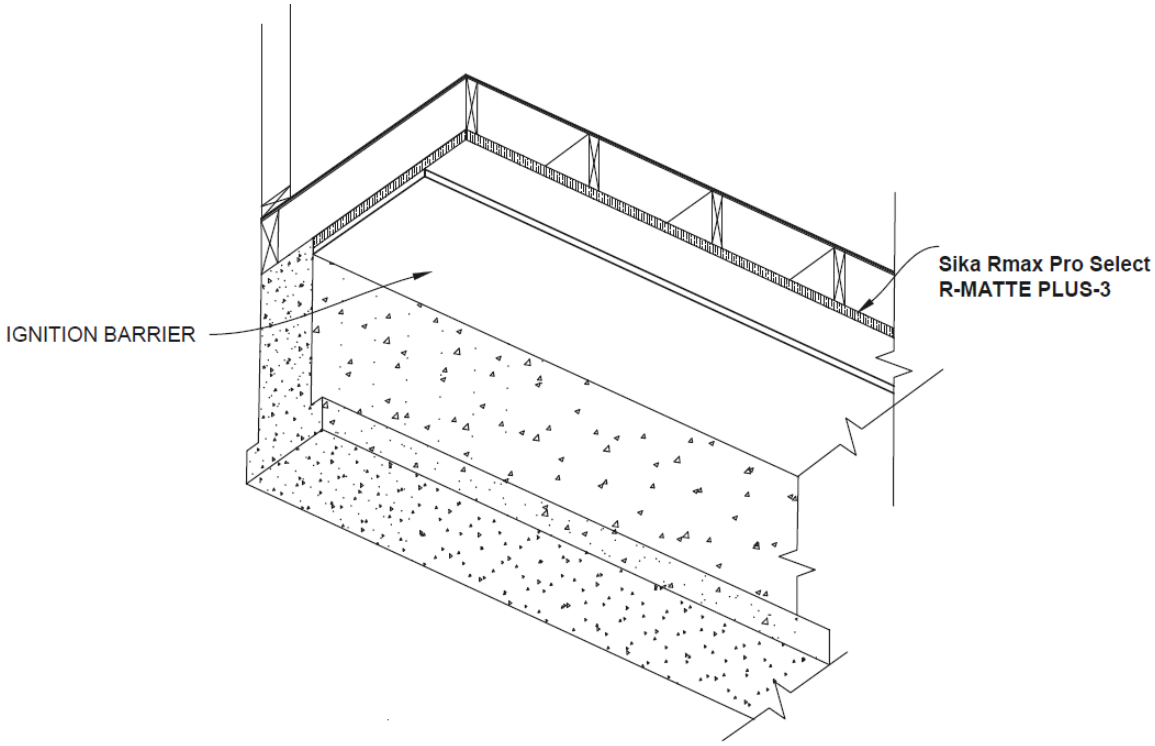
Below Grade Wall Construction	10
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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Notes:

1. Refer to local building codes for requirements on proper ventilation and bracing.
2. R-Matte Plus-3 insulation panels shall be secured to the framing using bugle-head screws, galvanized roofing nails, or minimum $^{3}/_{4}$" cap nails. A quality grade construction adhesive may also be used to secure the R-Matte Plus-3.

Ceiling Crawl Space Construction | 11

Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application | A1.00

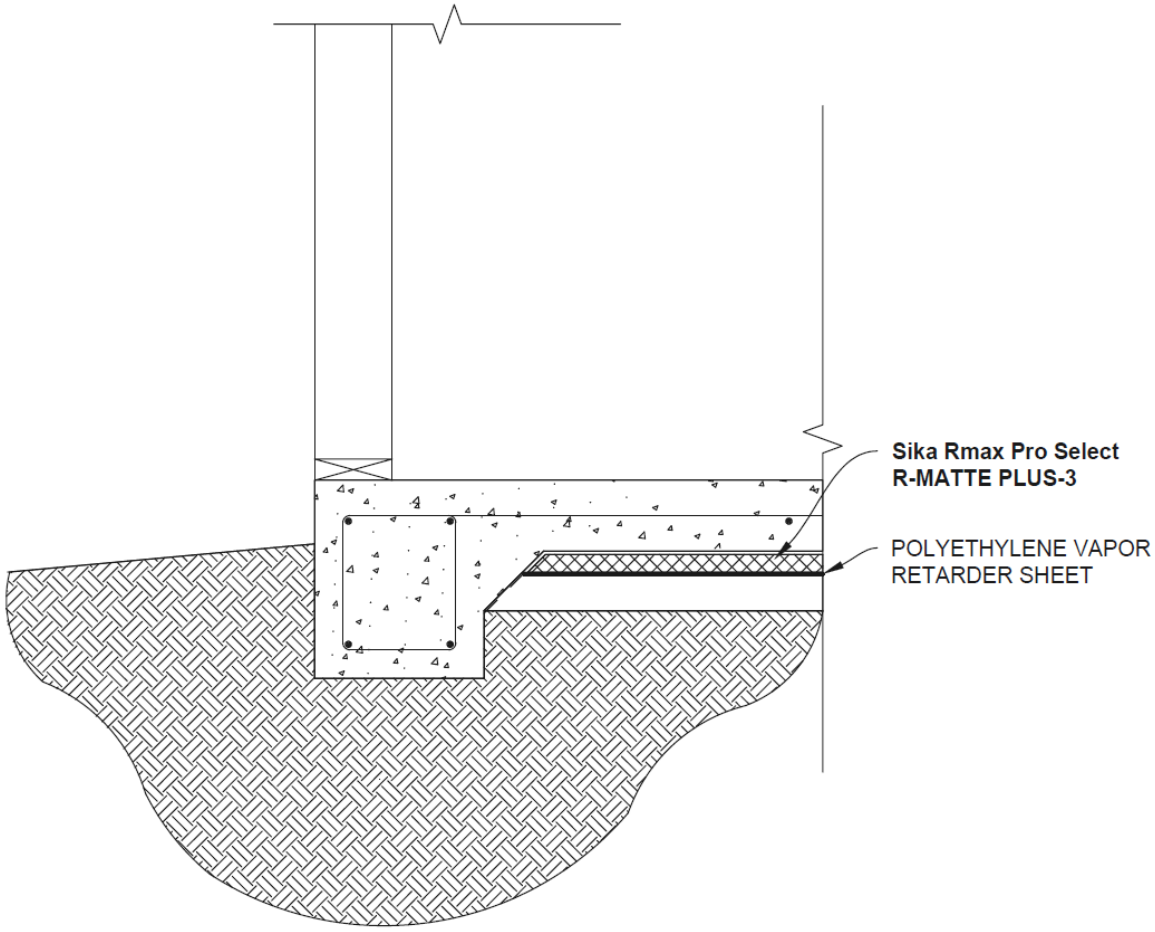
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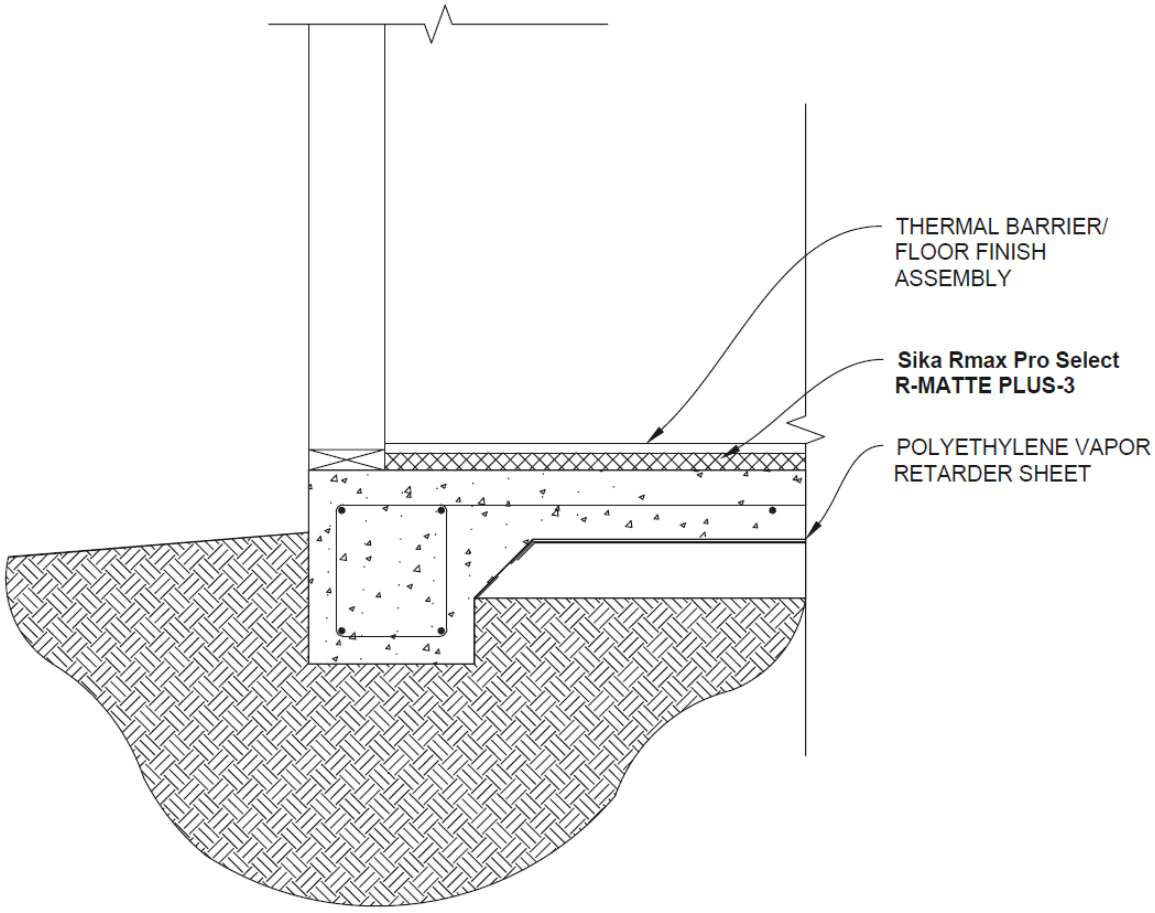
Notes:

1. R-Matte Plus-3 insulation panels are simply laid over the specially prepared base of crushed stone, sand, or other material that is spread for leveling.
2. Exact placement of the polyethylene vapor barrier is up the building designer and local code requirements.

Slab-on-Grade Construction	12
Sika® Rmax® Pro Select R-Matte® Plus-3 Exterior Application	A1.00

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			Date: 02/02/2024	Scale: NTS	Sheet: A1.00

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Notes:

1. R-Matte Plus-3 insulation panels are simply laid over the existing slab.
2. Refer to local building codes for requirements on confined spaces with exposed foam plastic where applicable.

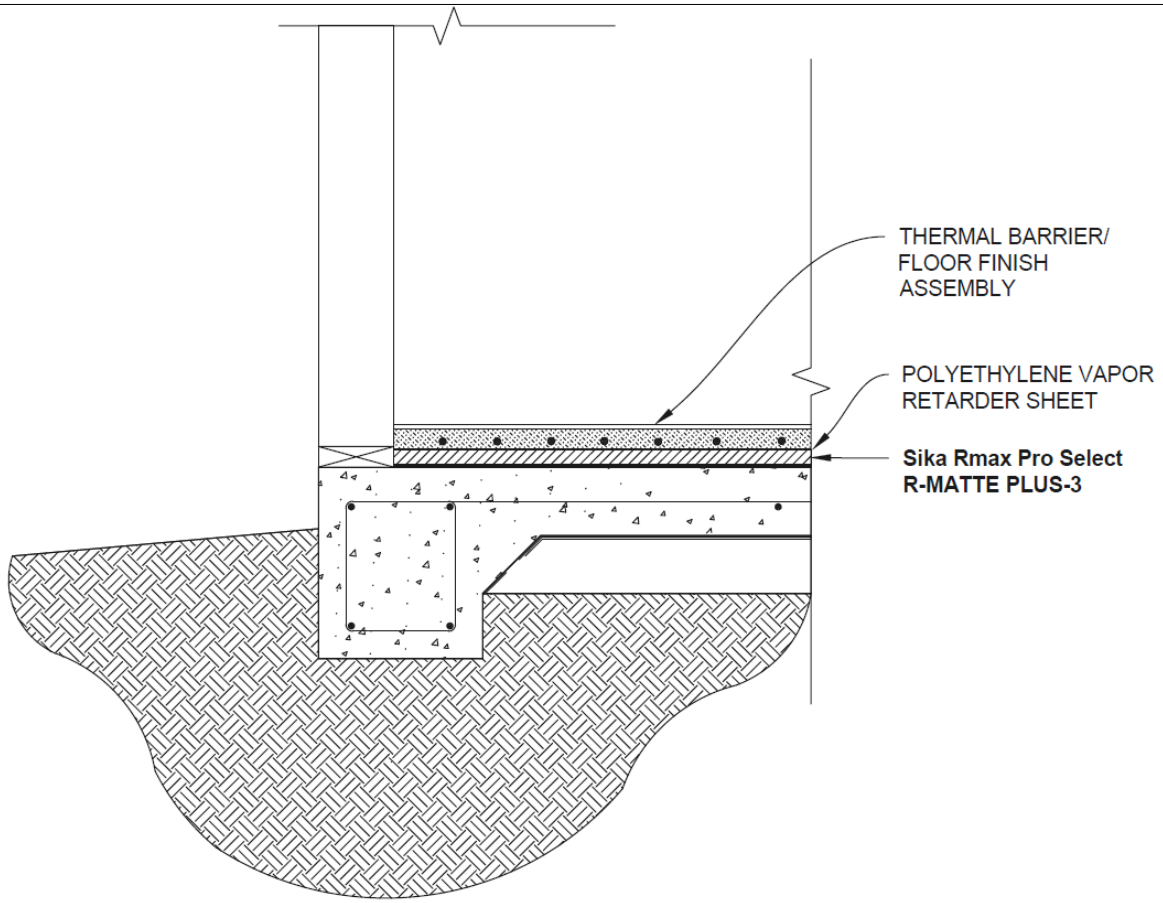
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Notes:

1. R-Matte Plus-3 insulation panels are simply laid over the existing slab.
2. Exact placement of the polyethylene vapor barrier is up the building designer and local code requirements.

Radiant Floor Slab Construction | 14

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Notes

1 For more information, visit drjcertification.org or call us at 608-310-6748.

2 Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the NDS, AISI S202, US professional engineering law, Canadian building code, Canada professional engineering law, Qualtim External Appendix A: Definitions/Commentary, Qualtim External Appendix B: Project/Deliverables, Qualtim External Appendix C: Intellectual Property and Trade Secrets, definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

3 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702

4 Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review https://www.justice.gov/atr/mission and https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3

5 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests

6 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1:~:text=Conformance%20to%20Standards-,The%20design%20strengths%20and%20permissible%20stresses,-of%20any%20structural

7 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20make%2C%20or%20cause%20to%20be%20made%2C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

8 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2

9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency

10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source

11 https://www.law.cornell.edu/uscode/text/18/1832 (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of $5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: Intellectual Property and Trade Secrets.

12 https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional AND https://apassociation.org/list-of-engineering-boards-in-each-state-archive/

13 https://www.cbitest.com/accreditation/

14 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1:~:text=directed%20to%20enforce%20the%20provisions%20of%20this%20code

15 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3 AND https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1

16 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

17 https://iaf.nu/en/about-iaf-mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope

18 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

19 https://www.justice.gov/crt/deprivation-rights-under-color-law AND https://www.justice.gov/atr/mission

20 Unless otherwise noted, the links referenced herein use un-amended versions of the 2024 International Code Council (ICC) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the IBC 2024 and the IRC 2024 are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

21 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by the local jurisdiction. https://up.codes/codes/general

22 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by state. https://up.codes/codes/general

23 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14

24 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

25 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2(Listed%20or%20certified); https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed AND https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled

26 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4

27 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades

28 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur

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[29] See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

[30] 2021 IBC Section 104.11

[31] 2021 IRC Section R104.11

[32] 2018: https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9 AND 2021: https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11

[33] Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.

[34] https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

[35] Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.

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